

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates
NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update
frequency
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS 6 Mar 08 Gene Names now available in BIOSIS
NEWS 7 Mar 22 TOXLIT no longer available
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and USPATFULL
NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY
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NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 19 Jun 03 New e-mail delivery for search results now available
NEWS 20 Jun 10 MEDLINE Reload
NEWS 21 Jun 10 PCTFULL has been reloaded
NEWS 22 Jul 02 FOREGE no longer contains STANDARDS file segment

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
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AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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NEWS INTER General Internet Information
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 10:17:49 ON 09 JUL 2002

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

ENTERED AT 10:17:59 ON 09 JUL 2002

61 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.53	0.74

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STRUCTURE FILE UPDATES: 8 JUL 2002 HIGHEST RN 437701-77-4
DICTIONARY FILE UPDATES: 8 JUL 2002 HIGHEST RN 437701-77-4

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e oleuropein/cn

E1	1	OLEUM SINAPIS/CN
E2	1	OLEUROPEIC ACID/CN
E3	1 -->	OLEUROPEIN/CN
E4	1	OLEUROPEIN AGLYCON/CN
E5	1	OLEUROPEIN AGLYCONE/CN
E6	1	OLEUROPEINDIAL/CN
E7	1	OLEUROPEINE/CN
E8	1	OLEUROPEINE AGLYCONE/CN
E9	1	OLEUROPEINIC ACID/CN
E10	1	OLEUROPEOSIDE/CN
E11	1	OLEUROSIDE/CN
E12	1	OLEUROSIDE HEXAACETATE/CN

=> s e3

L1 1 OLEUROPEIN/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 32619-42-4 REGISTRY
CN 2H-Pyran-4-acetic acid, 3-ethylidene-2-(.beta.-D-glucopyranosyloxy)-3,4-
dihydro-5-(methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester,
(2S,3E,4S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2H-Pyran-4-acetic acid, 3-ethylidene-2-(.beta.-D-glucopyranosyloxy)-3,4-
dihydro-5-(methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester,
[2S-(2.alpha.,3E,4.beta.)]-
CN 2H-Pyran-4-acetic acid, 5-carboxy-3-ethylidene-2-(.beta.-D-glucosyloxy)-
3,4-dihydro-, 3,4-dihydroxyphenethyl 5-methyl ester (7CI)
CN ***Oleuropein (8CI)***
OTHER NAMES:
CN Oleoeuropein
CN Oleoeuropeine
CN Oleuropeine
FS STEREOSEARCH
DR 163436-64-4, 1392-73-0, 37341-33-6, 4809-64-7, 30675-34-4
MF C25 H32 O13

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CHEMCATS, CHEMLIST,
CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK*, NAPRALERT, PROMT,
TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

/ Structure 1 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

289 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
289 REFERENCES IN FILE CAPLUS (1967 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s e4

L2 1 "OLEUROPEIN AGLYCON"/CN

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 31773-95-2 REGISTRY
CN 2H-Pyran-4-acetic acid, 3-ethylidene-3,4-dihydro-2-hydroxy-5-
(methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester, (2R,3E,4S)- (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2H-Pyran-4-acetic acid, 3-ethylidene-3,4-dihydro-2-hydroxy-5-
(methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester,
[2R-(2.alpha.,3E,4.beta.)]-
CN 2H-Pyran-4-acetic acid, 5-carboxy-3-ethylidene-3,4-dihydro-2-hydroxy-,
4-(3,4-dihydroxyphenethyl) 5-methyl ester (8CI)
OTHER NAMES:
CN Oleoeuropein aglycone
CN Oleoeuropeine aglycone
CN ***Oleuropein aglycon***
CN Oleuropein aglycone
CN Oleuropeine aglycone
FS STEREOSEARCH
DR 11039-64-8, 171752-97-9
MF C19 H22 O8
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS,
TOXCENTER
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry as shown.

/ Structure 2 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

56 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
57 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.92	12.66

STN INTERNATIONAL LOGOFF AT 10:19:29 ON 09 JUL 2002

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PASSWORD:

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AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

ENTERED AT 13:09:34 ON 09 JUL 2002

61 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s olive? or olea europa?

129	FILE ADISALERTS
3	FILE ADISINSIGHT
24	FILE ADISNEWS
5306	FILE AGRICOLA
673	FILE ANABSTR
646	FILE AQUASCI
2327	FILE BIOBUSINESS
78	FILE BIOCOMMERCE
12498	FILE BIOSIS
806	FILE BIOTECHABS
806	FILE BIOTECHDS
1462	FILE BIOTECHNO
9298	FILE CABA
680	FILE CANCERLIT
26444	FILE CAPLUS
515	FILE CEABA-VTB
132	FILE CEN
1276	FILE CIN
258	FILE CONFSCI
369	FILE CROPB
603	FILE CROPU
241	FILE DDFB
544	FILE DDFU
252	FILE DGENE
241	FILE DRUGB
39	FILE DRUGLAUNCH
61	FILE DRUGMONOG2
9	FILE DRUGNL
1279	FILE DRUGU
14	FILE DRUGUPDATES

<-----User Break----->

u

=> s olive? or olea(a) europa?

129	FILE ADISALERTS
3	FILE ADISINSIGHT
24	FILE ADISNEWS
5306	FILE AGRICOLA
673	FILE ANABSTR
646	FILE AQUASCI
2327	FILE BIOBUSINESS
78	FILE BIOCOMMERCE

12498 FILE BIOSIS
 806 FILE BIOTECHABS
 806 FILE BIOTECHDS
 1462 FILE BIOTECHNO
 9298 FILE CABA
 680 FILE CANCERLIT
 26444 FILE CAPLUS
 515 FILE CEABA-VTB
 132 FILE CEN
 1276 FILE CIN
 258 FILE CONFSCI
 369 FILE CROPB
 603 FILE CROPU
 241 FILE DDFB
 544 FILE DDFU
 252 FILE DGENE
 241 FILE DRUGB
 39 FILE DRUGLAUNCH
 61 FILE DRUGMONOG2
 9 FILE DRUGNL
 1279 FILE DRUGU
 14 FILE DRUGUPDATES
 82 FILE EMBAL
 6850 FILE EMBASE
 2795 FILE ESBIODBASE
 149 FILE FEDRIP
 1155 FILE FOMAD
 662 FILE FOREGE
 4081 FILE FROSTI
 4467 FILE FSTA
 14799 FILE GENBANK
 69 FILE HEALSAFE
 1507 FILE IFIPAT
 920 FILE JICST-EPLUS
 96 FILE KOSMET
 43 FILES SEARCHED...
 2920 FILE LIFESCI
 8 FILE MEDICONF
 5982 FILE MEDLINE
 414 FILE NIOSHTIC
 404 FILE NTIS
 199 FILE OCEAN
 6656 FILE PASCAL
 4 FILE PHAR
 1 FILE PHIC
 447 FILE PHIN
 37872 FILE PROMT
 9303 FILE SCISEARCH
 3 FILE SYNTHLINE
 5792 FILE TOXCENTER
 24177 FILE USPATFULL
 146 FILE USPAT2
 4214 FILE WPIDS
 4214 FILE WPINDEX

61 FILES HAVE ONE OR MORE ANSWERS, 61 FILES SEARCHED IN STNINDEX

L1 QUE OLIVE? OR OLEA(A) EUROPA?

=> s 11 (3a) (leaf or leaves or leafe or leafes)

126 FILE AGRICOLA
 29 FILE ANABSTR
 6 FILE AQUASCI
 45 FILE BIOBUSINESS
 1 FILE BIOCUMMERCE
 283 FILE BIOSIS
 6 FILE BIOTECHABS
 6 FILE BIOTECHDS
 28 FILE BIOTECHNO
 368 FILE CABA

```

480 FILE CAPLUS
1 FILE CEABA-VTB
3 FILE CIN
3 FILE CONFSCI
19 FILES SEARCHED...
15 FILE CROPB
36 FILE CROPU
3 FILE DDFB
14 FILE DDFU
3 FILE DRUGB
8 FILE DRUGLAUNCH
2 FILE DRUGMONOG2
14 FILE DRUGU
2 FILE EMBAL
69 FILE EMBASE
65 FILE ESBIOBASE
45 FILE FROSTI
35 FILE FSTA
6 FILE GENBANK
2 FILE HEALSAFE
15 FILE IFIPAT
21 FILE JICST-EPLUS
10 FILE KOSMET
36 FILE LIFESCI
52 FILE MEDLINE
2 FILE NIOSHTIC
3 FILE NTIS
128 FILE PASCAL
50 FILES SEARCHED...
167 FILE PROMT
192 FILE SCISEARCH
84 FILE TOXCENTER
86 FILE USPATFULL
74 FILE WPIDS
74 FILE WPINDEX

```

43 FILES HAVE ONE OR MORE ANSWERS, 61 FILES SEARCHED IN STNINDEX

L2 QUE L1 (3A) (LEAF OR LEAVES OR LEAFE OR LEAFES)

=> s 12 (s) (alcohol? or methanol? or ethanol?) or (lyophiliz? or freez? or boil?)

```

142 FILE ADISALERTS
16 FILE ADISINSIGHT
56 FILE ADISNEWS
14198 FILE AGRICOLA
8373 FILE ANABSTR
7331 FILE AQUASCI
7808 FILE BIOBUSINESS
232 FILE BIOCOMMERCE
62041 FILE BIOSIS
5886 FILE BIOTECHABS
5886 FILE BIOTECHDS
8794 FILE BIOTECHNO
33840 FILE CABA
4715 FILE CANCERLIT

```

<-----User Break----->

u

=> s 12 (s) ((alcohol? or methanol? or ethanol?) or (lyophiliz? or freez? or boil?))

```

2 FILE AGRICOLA
6 FILE ANABSTR
2 FILE BIOBUSINESS
20 FILE BIOSIS
1 FILE BIOTECHABS
1 FILE BIOTECHDS
2 FILE BIOTECHNO
16 FILE CABA
25 FILE CAPLUS
2 FILE CROPU
22 FILES SEARCHED...

```

```

        5   FILE DDFU
        5   FILE DRUGU
        9   FILE EMBASE
        4   FILE ESBIODBASE
        0*  FILE FEDRIP
        8   FILE FROSTI
        6   FILE FSTA
39 FILES SEARCHED...
        3   FILE IFIPAT
        4   FILE JICST-EPLUS
        1   FILE KOSMET
        9   FILE MEDLINE
        2   FILE NIOSHTIC
       13   FILE PASCAL
       10   FILE PROMT
54 FILES SEARCHED...
       13   FILE SCISEARCH
        2   FILE TOXCENTER
       10   FILE USPATFULL
       17   FILE WPIDS
       17   FILE WPINDEX

28 FILES HAVE ONE OR MORE ANSWERS,   61 FILES SEARCHED IN STNINDEX

L3  QUE L2 (S) ((ALCOHOL? OR METHANOL? OR ETHANOL?) OR (LYOPHILIZ? OR FREEZ? O
    R BOIL?))

=> s 13 (s) (benzene or chloroform or hexane)

        1   FILE AGRICOLA
        2   FILE ANABSTR
        3   FILE BIOSIS
        1   FILE BIOTECHABS
        1   FILE BIOTECHDS
        3   FILE CABA
21 FILES SEARCHED...
        1   FILE EMBASE
        1   FILE ESBIODBASE
        0*  FILE FEDRIP
        1   FILE FSTA
39 FILES SEARCHED...
        1   FILE JICST-EPLUS
        1   FILE MEDLINE
        2   FILE PASCAL
        2   FILE SCISEARCH
56 FILES SEARCHED...
        1   FILE USPATFULL
        3   FILE WPIDS
        3   FILE WPINDEX

16 FILES HAVE ONE OR MORE ANSWERS,   61 FILES SEARCHED IN STNINDEX

L4  QUE L3 (S) (BENZENE OR CHLOROFORM OR HEXANE)

=> d rank

F1         3   BIOSIS
F2         3   CABA
F3         3   WPIDS
F4         3   WPINDEX
F5         2   ANABSTR
F6         2   PASCAL
F7         2   SCISEARCH
F8         1   AGRICOLA
F9         1   BIOTECHABS
F10        1   BIOTECHDS
F11        1   EMBASE
F12        1   ESBIODBASE
F13        1   FSTA
F14        1   JICST-EPLUS
F15        1   MEDLINE

```


F16 1 USPATFULL

=> fil f1-f2, f5-f115

'F5-F115' EXCEEDS F# RANGE 'F1-F61'
ENTER A FILE NAME OR (IGNORE):f15

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.36	6.57

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FILE 'MEDLINE' ENTERED AT 13:16:54 ON 09 JUL 2002

=> fil f1-f2, f5-f15

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.66	8.23

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FILE 'MEDLINE' ENTERED AT 13:17:09 ON 09 JUL 2002

=> s 14

7 FILES SEARCHED...
L5 19 L4

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 7 DUP REM L5 (12 DUPLICATES REMOVED)

=> d 16 1- all

YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1999:394658 BIOSIS
DN PREV199900394658
TI Improvement in the turnover rate of the stratum corneum in false aged
model rats by the administration of geniposidic acid in *Eucommia ulmoides*
Oliver leaf.
AU Li, Yanmei; Metori, Koichi; Koike, Katsuya (1); Che, Qing-ming; Takahashi,
Shushichi
CS (1) Biochemistry Laboratory, College of Pharmacy, Nihon University, 7-7-1
Narashino-dai, Funabashi, Chiba, 274-8555 Japan
SO Biological & Pharmaceutical Bulletin, (June, 1999) Vol. 22, No. 6, pp.
582-585.
ISSN: 0918-6158.
DT Article
LA English
SL English
AB We earlier reported that collagen synthesis in false aged model rats was
stimulated by the administration of a ***methanol*** extract from the
leaves of *Eucommia ulmoides* ***Oliver***. When the
methanol extract was fractionated to n- ***hexane***, ethyl
acetate, acetone and ***methanol*** fractions by silica gel
chromatography, we discovered that geniposidic acid and aucubin, contained
in the acetone fraction, were the active ingredients. In the current
study, we set out to examine if active compounds found in the *Eucommia*
ulmoides ***Oliver*** ***leaf*** (EUOL) improved the low turnover
rate in the stratum corneum of false aged model rats. The turnover rate in
the stratum corneum in rats was measured as 50% dansyl chloride clearance
day. In the first experiment, administration of a 2.4% water soluble
methanol extract (WSME) of EUOL, along with an 11% protein diet,
led to a 20% higher turnover rate in the stratum corneum ($p < 0.05$,
Mann-Whitney) than the control value. The WSME mainly contained iridoid
mono-glycosides such as geniposidic acid. In the second experiment,
treatment with geniposidic acid similarly caused a higher turnover rate in
the stratum corneum, increasing turnover by 23% ($p < 0.05$, Mann-Whitney)
compared to the control value. In this paper we reveal that the WSME
contains compounds effective against aging, and one of them is geniposidic
acid.
CC Pharmacognosy and Pharmaceutical Botany *54000
Biochemical Studies - General *10060
Metabolism - General Metabolism; Metabolic Pathways *13002
Integumentary System - General; Methods *18501
Pharmacology - General *22002
Gerontology *24500
Plant Physiology, Biochemistry and Biophysics - Chemical Constituents
*51522
BC *Eucommiaceae* 26045
Muridae 86375
IT Major Concepts
Aging; Integumentary System (Chemical Coordination and Homeostasis);
Pharmacognosy (Pharmacology)
IT Parts, Structures, & Systems of Organisms
leaves; stratum corneum: integumentary system, turnover rate
IT Chemicals & Biochemicals
aucubin; collagen: synthesis; geniposidic acid; *Eucommia ulmoides*
methanol extract: anti-aging effect, metabolic - drug
ORGN Super Taxa
Eucommiaceae: Dicotyledones, Angiospermae, Spermatophyta, Plantae;
Muridae: Rodentia, Mammalia, Vertebrata, Chordata, Animalia
ORGN Organism Name
rat (*Muridae*): animal model; *Eucommia ulmoides* (*Eucommiaceae*):
medicinal plant
ORGN Organism Superterms

Angiosperms; Animals; Chordates; Dicots; Mammals; Nonhuman Mammals;
 Nonhuman Vertebrates; Plants; Rodents; Spermatophytes; Vascular Plants;
 Vertebrates

RN 479-98-1 (AUCUBIN)
 27741-01-1 (GENIPOSIDIC ACID)

L6 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
 AN 1998:369199 BIOSIS
 DN PREV199800369199
 TI Supercritical fluid extraction of phenol compounds from olive leaves.
 AU Le Floch, F.; Tena, M. T.; Rios, A.; Valcarcel, M. (1)
 CS (1) Dep. Analytical Chem., Fac. Sci., Univ. Cordoba, E-14004 Cordoba Spain
 SO Talanta, (Aug., 1998) Vol. 46, No. 5, pp. 1123-1130.
 ISSN: 0039-9140.
 DT Article
 LA English
 AB A clean, highly selective supercritical fluid extraction (SFE) method for
 the isolation of phenols from ***olive*** ***leaf*** samples was
 examined. Total phenol extracts were determined using the Folin-Ciocalteu
 reagent. Dried, ground, sieved ***olive*** ***leaf*** samples (30
 mg) are subjected to SFE, using carbon dioxide modified with 10%
 methanol at 334 bar, 100degreeC (CO2 density 0.70 g ml-1) at a
 liquid flow-rate of 2 ml min-1 for 140 min. Diatomaceous earth is used to
 reduce the void volume of the extraction vessel. The influence of
 extraction variables such as modifier content, pressure, temperature,
 flow-rate, extraction time, and collection/elution variables, were
 studied. Supercritical fluid extracts were screened for acid compounds
 such as carboxylic acids and phenols using Electrospray-MS (in the
 negative ionization mode). SFE was found to produce higher phenol
 recoveries than sonication in liquid solvents such as n- ***hexane*** ,
 diethyl ether and ethyl acetate. However, the extraction yield obtained
 was only 45%, using liquid ***methanol*** .
 CC Plant Physiology, Biochemistry and Biophysics - Chemical Constituents
 *51522
 Biochemical Studies - General *10060
 Plant Physiology, Biochemistry and Biophysics - Apparatus and Methods
 *51524
 BC Oleaceae 26475
 IT Major Concepts
 Biochemistry and Molecular Biophysics; Methods and Techniques
 IT Chemicals & Biochemicals
 carboxylic acids; phenol compounds; Folin-Ciocalteu reagent: Merck,
 reagent
 IT Methods & Equipment
 electrospray-MS [electrospray-mass spectrometry]: analytical method,
 mass spectrometry: CB; supercritical fluid extraction:
 Analysis/Characterization Techniques: CB, analytical method, extraction
 method; Fisons VG platform electrospray mass spectrometer: Fisons,
 laboratory equipment; Fisons VG Autospec mass spectrometer: Fisons,
 laboratory equipment; Hewlett Packard 8453 diode array
 spectrophotometer: Hewlett Packard, laboratory equipment; 7680T Hewlett
 Packard supercritical fluid extractor: Hewlett Packard, laboratory
 equipment
 IT Miscellaneous Descriptors
 collection/elution variables; extraction time; flow-rae; modifier
 content; pressure; temperature
 ORGN Super Taxa
 Oleaceae: Dicotyledones, Angiospermae, Spermatophyta, Plantae
 ORGN Organism Name
 Olea-europaea [olive] (Oleaceae)
 ORGN Organism Superterms
 Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants

RN 108-95-2D (PHENOL)

L6 ANSWER 3 OF 7 CABA COPYRIGHT 2002 CABI
 AN 1998:146248 CABA
 DN 980310491
 TI Lipids of the leaves of Elaeagnus angustifolia. I. Surface lipids
 AU Bekker, N. P.; Glushenkova, A. I.
 CS Institute of the Chemistry of Plant Substances, Academy of Sciences of the
 Republic of Uzbekistan, Tashkent, Uzbekistan.

SO Chemistry of Natural Compounds, (1997) Vol. 33, No. 5, pp. 543-544. 3 ref;
translated from Khimiya Prirodnykh Soedinenii (1997) 33 (5) 700-702 (Ru).
ISSN: 0009-3130

DT Journal

LA English

AB Lipids from the surface layer of the ***leaves*** of Russian
olive (Elaeagnus angustifolia) were extracted by brief immersion
in ***chloroform*** and identified by chromatographic and
spectroscopic methods. Esters (mainly wax esters and esters of amyriols)
constituted 70.5% of the total lipids; the predominating moieties were
saturated C20-24 acids and C22-26 ***alcohols***.

CC FF040 Plant Composition

GT Uzbekistan

BT Elaeagnaceae; Proteales; dicotyledons; angiosperms; Spermatophyta; plants;
Elaeagnus; West Asia; Asia; Developed Countries

CT chromatography; extraction; identification; esters; leaves; lipids; wax
esters; spectral analysis; ornamental plants; ornamental woody plants

ORGN Elaeagnus; Elaeagnaceae; Elaeagnus angustifolia

L6 ANSWER 4 OF 7 ANABSTR COPYRIGHT 2002 RSC

AN 59(12):H219 ANABSTR

TI Direct identification of phenolic glucosides from olive leaf extracts by
atmospheric-pressure-ionization tandem mass spectrometry.

AU De Nino, A.; Lombardo, N.; Perri, E.; Procopio, A.; Raffaelli, A.;
Sindona, G. (Dipt. Chim., Univ. Calabria, 87030 Arcavacata di Rende,
Italy)

SO J. Mass Spectrom. (1997) 32(5), 533-541
CODEN: JMSPFJ ISSN: 1076-5174

DT Journal

LA English

AB Leaves of Olea europea L. cv. Cassanese (2.5 g) were extracted with
methanol (2 x 25 ml), and the extract was concentrated in vacuum
under a stream of nitrogen and partitioned in acetonitrile/ ***hexane***
(2:3 v/v). After evaporation of the solvent, the residue was dissolved in
25 ml ***methanol***. Chromatography was performed on a 3 .mu.m C18
column (30 cm .times. 4.6 mm i.d.), with gradient elution with
acetonitrile/water containing 0.1% formic acid. Positive ion-mode ionspray
mass spectra were obtained on a Perkin-Elmer Sciex API III Plus mass
spectrometer, using argon as collision gas. FAB spectra were obtained on a
VG ZAB-2F mass spectrometer, with samples prepared from 1 .mu.l of a
methanolic solution of analyte mixed with 1 .mu.l of ammonium
chloride/glycerol (1:6 w/w). MIKE and MIKE-CID spectra were obtained.
Oleuropein, ligstroside and a disaccharide containing the hydroxytyrosol
moiety were found in ***olive*** ***leaf*** and their structures
determined by tandem MS.

CC *H Environment, Agriculture and Food (60000)

IT Analyte(s):
glucosides; polyphenols
(identn. of, from olive leaf, by atmospheric-pressure-ionization tandem
MS)
Matrix:
olive
(identn. of phenolic glucosides from leaves of, by atmospheric-pressure-
ionization tandem MS)
Concepts:
mass spectrometry
(tandem, in plant analysis)

L6 ANSWER 5 OF 7 BIOTECHABS COPYRIGHT 2002 THOMSON DERWENT AND ISI

AN 1997-06128 BIOTECHABS

TI Production of glucose and bioactive aglycone by chemical and enzymatic
hydrolysis of purified oleuropein from Olea europea;
(conference paper)

AU Capasso R; Evidente A; Visca C; Gianfreda L; Maremonti M; Greco Jr G

CS Univ.Naples-Federico-II

LO Dipartimento di Scienze Chimico-Agrarie, Universita di Napoli Federico
II, Naples, Italy.

SO Appl.Biochem.Biotechnol.; (1996) 61, 3, 365-77
CODEN: ABIBDL ISSN: 0273-2289
Biocatalysis 95', Proceedings of the International Conference, Suzdal,
Russia, 28 August-1 September, 1995.

DT Journal
LA English
AB Beta-glucosidase (bGS, EC-3.2.1.21) hydrolysis of oleuropein was discussed. Also, a simple chromatographic purification procedure was described. Crude oleuropein was extracted from ***leaves*** of ***olive*** plant (*Olea europea*). Crude oleuropein (2.5 g) was chromatographed through a column packed with silica-gel and eluted with a mixture of n- ***hexane*** -ethyl acetate- ***methanol*** under medium pressure at 14 ml/min. Fractions were collected and analyzed by TLC. Purification yielded 0.28 g of pure oleuropein/ 1 g crude product. 10 ml Of oleuropein in 1 N H2SO4 was kept at 55 deg with stirring. The course of chemical hydrolysis was monitored by TLC every 30 min. Aglycone was obtained from bGS hydrolysis of oleuropin. After 3 hr oleuropein was completely hydrolyzed into glucose, elenolic acid, and hydroxytyrosol. In the enzymatic hydrolysis, a commercial bGS was used without further purification where oleuropein in acetate buffer and the enzyme were incubated at 37 deg. The hydrolysis was characterized in terms of optimal pH value, activation energy and thermal stability. (17 ref)

CC F FOOD; F1 Food and Food Additives; K BIOCATALYSIS; K2 Application
CT GLUCOSE PREP., BIOACTIVE AGLYCONE PREP., ELENOLIC ACID PREP., HYDROXYTYROSOL PREP., CHEM., ENZYMATIC HYDROLYSIS OF OLEUROPEIN FROM OLEA EUROPEA, IMMOBILIZED BETA-GLUCOSIDASE SUGAR ENZYME EC-3.2.1.21
HYPOTENSIVE CARDIANT ANTIARRHYTHMIC SPASMOLYTIC (VOL.16, NO.11)

L6 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3
AN 1993:169029 BIOSIS
DN PREV199395090079
TI Epicuticular wax of olive leaves.
AU Bianchi, Giorgio; Vlahov, Giovanna; Anglani, Caterina; Murelli, Carla
CS Ist. Sperimentale Elaiotecnica, Via C. Battisti 198, 65123-Pescara Italy
SO Phytochemistry (Oxford), (1993) Vol. 32, No. 1, pp. 49-52.
ISSN: 0031-9422.

DT Article
LA English
AB The main components of the ***chloroform*** -soluble epicuticular waxes from ***olive*** tree ***leaves*** (***Olea*** ***europaea*** cvs Coratina and Cipressino), were triterpene oleanolic and betulinic acids and triterpenols sitosterol, alpha-and beta-amyrin, uvaol and erythrodiol. The waxes of both cultivars contain the ubiquitous wax classes of alkanes, ***alcohols*** , aldehydes, fatty acids and alkyl esters. Methyl phenyl esters and 2-phenyl- ***ethanol*** -1-esters were both present in low amounts in cv. Coratina whilst cv. Cipressino contained only the former class of compounds. Furthermore cv. Coratina contained triacylglycerols that were missing in cv. Cipressino wax.

CC Biochemical Studies - General *10060
Biochemical Studies - Lipids *10066
Biochemical Studies - Sterols and Steroids *10067
Plant Physiology, Biochemistry and Biophysics - Chemical Constituents *51522

BC Oleaceae *26475
IT Major Concepts
Biochemistry and Molecular Biophysics
IT Chemicals & Biochemicals
OLEANOLIC ACID; BETULINIC ACID; ALPHA-AMYRIN; BETA-AMYRIN; UVAOL; ERYTHRODIOL; PHENYL; 2-PHENYLETHANOL
IT Miscellaneous Descriptors
ALPHA=AMYRIN; BETA=AMYRIN; BETULINIC ACID; ERYTHRODIOL; METHYL PHENYL ESTERS; OLEANOLIC ACID; SITOSTEROL; TRIACYLGLYCEROLS; UVAOL; 2=PHENYLETHANOL 1-ESTERS

ORGN Super Taxa
Oleaceae: Dicotyledones, Angiospermae, Spermatophyta, Plantae
ORGN Organism Name
Olea europaea (Oleaceae)
ORGN Organism Superterms
angiosperms; dicots; plants; spermatophytes; vascular plants

RN 508-02-1 (OLEANOLIC ACID)
472-15-1 (BETULINIC ACID)
638-95-9 (ALPHA-AMYRIN)
559-70-6 (BETA-AMYRIN)
545-46-0 (UVAOL)

545-48-2 (ERYTHRODIOL)
2396-01-2D (PHENYL)
60-12-8 (2-PHENYLETHANOL)

L6 ANSWER 7 OF 7 FSTA COPYRIGHT 2002 IFIS
AN 1988(10):N0033 FSTA
TI Separation and concentration of natural antioxidants from the rape of
olives.
AU Sheabar, F. Z.; Neeman, I.
CS Dep. of Food Eng. & Biotech., Technion, Israel Inst. of Tech., Haifa
32000, Israel
SO Journal of the American Oil Chemists' Society, (1988), 65 (6) 990-993, 18
ref.
ISSN: 0003-021X
DT Journal
LA English
AB Polyphenols (PP) are natural antioxidants in ***olive***
leaves and fruit. ***Olive*** oil extracted mechanically
contains less PP than solvent extracted oil. PP were isolated from rape (a
major byproduct of mechanical olive oil extraction) of Israeli olive oil
using (i) ***hexane***, (ii) acetone and (iii) ***ethanol*** in a
sequential procedure to yield 3 fractions. (i) contained few PP (0.05%),
whereas (ii) and (iii) contained about 5% PP each. These 2 also contained
about 3% o-diphenol. Addition of 100 p.p.m. purified (ii) to refined olive
or soy oils partially inhibited oxidative deterioration in the dark at
100.degree.C, as measured via peroxide and anisidine values (results given
in graphs).
CC N (Fats, Oils and Margarine)
CT ANTIOXIDANTS; BY-PRODUCTS; EXTRACTION; OILS VEGETABLE; OLIVE OILS;
PHENOLS; POLYPHENOLS; SEPARATION; SOLVENTS; OLIVE OILS RAPE; RAPE

=> s 11 (3a) (leaf or leaves or leafe or leafes)

L7 1374 L1 (3A) (LEAF OR LEAVES OR LEAFE OR LEAFES)

=> s 17 (s) (freez? or frozen or lyophil?)

L8 12 L7 (S) (FREEZ? OR FROZEN OR LYOPHIL?)

=> s 18 (s) (benzene or chloroform or hexane)

L9 0 L8 (S) (BENZENE OR CHLOROFORM OR HEXANE)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.47	38.70

STN INTERNATIONAL LOGOFF AT 13:26:55 ON 09 JUL 2002

L Number	Hits	Search Text	DB	Time stamp
1	7	(olive near3 (leaf or leaves)) same (benzene or chloroform or phenol or hexane)	USPAT; EPO; JPO; DERWENT	2002/07/09 12:53
2	4	(olive near3 (leaf or leaves)) same (boil\$4 or lyophiliz\$6 or freeze\$6)	USPAT; EPO; JPO; DERWENT	2002/07/09 12:55
3	112	protein or enzyme) near3(alcohol near3 denatur\$6	USPAT; EPO; JPO; DERWENT	2002/07/09 12:57
4	0	(protein or enzyme) near3(alcohol near3 denatur\$6) near (plant or herb)	USPAT; EPO; JPO; DERWENT	2002/07/09 12:57
5	27297	olive or olea adj europa\$3	USPAT; EPO; JPO; DERWENT	2002/07/09 12:59
6	149	(olive or olea adj europa\$3) near3 (leaf or leaves)	USPAT; EPO; JPO; DERWENT	2002/07/09 13:00
7	2	((olive or olea adj europa\$3) near3 (leaf or leaves)) same (chloroform or benzene or hexane) same (methanol\$3 or ethanol\$3 or alcohol\$3)	USPAT; EPO; JPO; DERWENT	2002/07/09 13:01